IN THE CLAIMS

Please amend the claims as follows:

Claims 1-18 (Canceled).

Claim 19 (New): A microelectronic device used to produce light radiation, comprising:

first electroluminescent means for producing first radiation of a first luminance;

first control means for producing a variable current according to a first range of levels, and to control the first electroluminescent means by a first current with a level belonging to the first range of levels;

second electroluminescent means for producing second radiation of a second luminance; and

second control means for producing a variable current according to a second range of levels, and to control the second electroluminescent means, by a second current with a level belonging to the second range of levels, with the light radiation having a total luminance which is a combination of the first luminance and of the second luminance.

Claim 20 (New): A device according to claim 19, wherein plural intensities of the first range of levels to which the first current belongs are lower than intensities of the second range of levels to which the second current belongs.

Claim 21 (New): A device according to claim 19, wherein the first and second control means each include switching means.

Claim 22 (New): A device according to claim 21, wherein the switching means of the first control means and the second control means are controlled by a given signal.

Claim 23 (New): A device according to claim 21, wherein the switching means of the first control means includes at least one first transistor switch.

Claim 24 (New): A device according to claim 23, wherein the switching means of the second control means includes at least one second transistor switch.

Claim 25 (New): A device according to claim 19, wherein the first and second control means each include current modulating means.

Claim 26 (New): A device according to claim 25, wherein the current modulating means of the first control means includes at least a first current modulating transistor.

Claim 27 (New): A device according to claim 26, wherein the means for modulating the second control means includes at least a second current modulating transistor.

Claim 28 (New): A device according to claim 27, wherein the first control means includes a first current-modulating transistor with a channel of length L_1 and width W_1, the second control means includes a second current-modulating transistor with a channel of length L_2 and width W_2, with the ratio W_2/L_2 is greater than the ratio W_1/L_1.

Claim 29 (New): A device according to claim 25, wherein the current modulating means of the first control means is controlled by a first control signal, and the current modulating means of the second control means is controlled by a second control signal.

Claim 30 (New): A device according to claim 29, wherein the first control signal belongs to a first range of voltages, and the second control signal belongs to a second range of voltages that is different from the first range of voltages.

Claim 31 (New): A device according to claim 29, wherein the first control means further includes at least one first capacitor configured to retain the first control signal.

Claim 32 (New): A device according to claim 31, wherein the second control means further includes at least one second capacitor configured to retain the second control signal.

Claim 33 (New): A device according to claim 19, wherein the first and second electroluminescent means each include an organic photodiode.

Claim 34 (New): A device according to claim 19, wherein the first electroluminescent means includes a first photodiode, the second electroluminescent means includes a second photodiode, and the first photodiode and the second photodiode have different emitting areas.

Claim 35 (New): A device according to claim 19, wherein the first electroluminescent means and the second electroluminescent means are configured to function alternately or simultaneously.

Claim 36 (New): A display or screen pixel that includes a microelectronic device according to claim 19.